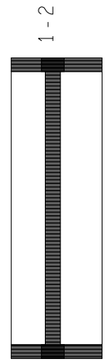
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

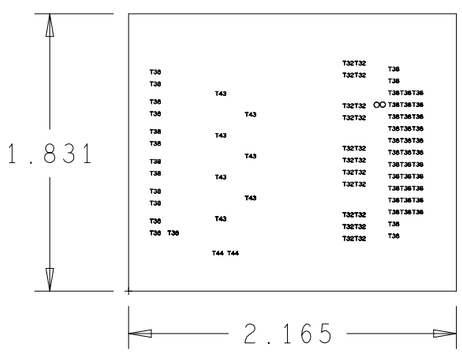


L1: TOP CONDUCTOR - COPPER 2.8 MIL

* DIELECTRIC - FR-4 56.4 MIL

L2: BOTTOM CONDUCTOR - COPPER 2.8 MIL

DESIGN CROSS SECTION CHART
TOTAL THICKNESS 62 MIL



DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
○	10.0	PLATED	2
T32	32.0	PLATED	22
T38	38.0	PLATED	50
T43	43.0	PLATED	7
T44	44.0	PLATED	2

CLASS II FABRICATION NOTES: (UNLESS OTHERWISE SPECIFIED)

1. BOARDS SHALL BE 100% NET LIST TESTED FOR OPENS AND SHORTS PER PROVIDED IPC-D-356 NETLIST.
2. THIS BOARD SHALL BE MANUFACTURED IN ACCORDANCE WITH IPC-6012A CLASS II SPECIFICATIONS AND MEET IPC-600 CLASS II ACCEPTABILITY STANDARDS.
3. MATERIAL:
   a. FR4 PER IPC 4101B/24 /26, OR /28.
   b. SIGNAL LAYERS TO BE 2 OZ. COPPER.
   ~~c. PLANE LAYERS TO BE 1 OZ. COPPER.~~
   d. OVERALL THICKNESS TO BE 0.062" +/- 10%
4. LEGEND:
   a. WHITE NON-CONDUCTIVE EPOXY ON TOP SIDE ONLY.
5. SOLDERMASK:
   a. APPLY LIQUID PHOTO-IMAGABLE (LPI) SOLDER MASK OVER BARE COPPER PER IPC-SM-840 CLASS H, COLOR GREEN, BOTH SIDES.
6. PLATING FINISH:
   a. HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.
   ~~b. IMMERSION SILVER IAg.~~
7. PROCESS ALLOWANCES:
   a. MAXIMUM BOW AND TWIST SHALL NOT EXCEED .007" PER INCH
   b. HOLE DIMENSIONS APPLY AFTER PLATING.
   c. ALL HOLES SHALL BE LOCATED WITHIN 0.003" DIAMETER OF TRUE POSITION.
   d. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003".
   e. CONDUCTOR WIDTHS AND SPACING SHALL BE WITHIN +/- 0.002".
   f. REMOVE ALL BURRS AND BREAK SHARP EDGES 0/015" MAX.
   g. CUT OUTSIDE OF 0.001" BOARD OUTLINE.

*POWER TRACES ARE ROUGHLY RATED TO 18AMPS WITH A TEMPERATURE RISE OF 20 DEGREES CELCIUS IN AIR. RUNNING TEMPERATURE IN OIL SHOULD BE LOWER.

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	WHISTLE CONTROLLER ADAPTER CAN BUS ADDITION
DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS +/- 0.02" 3 PL DECIMALS +/- 0.005" ANGLES +/- 1 Degree FRACTIONS +			MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA
	DESIGNED BY: DALE GRAVES		SIZE B / REVISION A / DWG NO 100221136
	LAYOUT BY: JOSE ROSAL		SCALE 1-1 / SHEET 1-1